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**Title:** JP59097105A2: INTERFERENCE TYPE POLARIZER

**Country:** JP Japan

**Kind:** A

**Inventor:** MORI TOSHIO;

**Assignee:** SONY CORP  
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**Published / Filed:** 1984-06-04 / 1982-11-27

**Application Number:** JP1982000208063

**IPC Code:** G02B 5/30; G02B 5/28;

**Priority Number:** 1982-11-27 JP1982000208063


**Abstract:** PURPOSE: To select a prescribed wavelength according to a polarization plane and to form an interference type polarizer having a simple construction with less occupying space by replacing the dielectric layer of an interference filter with a double refractive dielectric layer obtainable by diagonal vapor deposition.

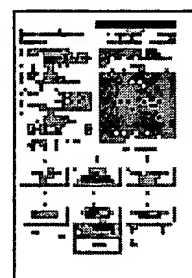
CONSTITUTION: An interference type polarizer 1 is provided with reflection layers 3, 4 each consisting of a translucent thin film of silver and a double refractive layer 5 formed by diagonal incidence and vapor deposition of a dielectric material, for example, titanium dioxide, on a glass substrate 2. The polarizer 1 constituted in such a way has wavelength selectivity as an interference filter by allowing selective transmission of only the light having the wavelength expressed by  $2nd=m\lambda$ , where (m) is an integer and (n) is the refractive index of the double refractive layer, with respect to the incident light in a vertical direction on account of the interference effect generated by the thickness (d) of the layer 5. Said polarizer permits also the transmission of the light having a uniform polarization plane and the light having a prescribed wavelength according to the polarization plane of the incident light.

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**Family:** None

**Forward References:** Go to Result Set: [Forward references \(1\)](#)

Buy PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US4813768	1989-03-21	Hamaguchi; Shigeki	Toyota Jidosha Kabushiki Kaisha	Liquid crystal device having oblique evaporation film protected by a protective





(19)

(11) Publication number: **5**

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**PATENT ABSTRACTS OF JAPAN**(21) Application number: **57208063**(51) Intl. Cl.: **G02B 5/30 G02B 5/28**(22) Application date: **27.11.82**

(30) Priority:		(71) Applicant: <b>SONY CORP</b>
(43) Date of application publication:	<b>04.06.84</b>	(72) Inventor: <b>MORI TOSHIO</b>
(84) Designated contracting states:		(74) Representative:

**(54) INTERFERENCE TYPE POLARIZER**

(57) Abstract:

**PURPOSE:** To select a prescribed wavelength according to a polarization plane and to form an interference type polarizer having a simple construction with less occupying space by replacing the dielectric layer of an interference filter with a double refractive dielectric layer obtainable by diagonal vapor deposition.

**CONSTITUTION:** An interference type polarizer 1 is provided with reflection layers 3, 4 each consisting of a translucent thin film of silver and a double refractive layer 5 formed by diagonal incidence and vapor deposition of a dielectric material, for example, titanium dioxide, on a glass substrate 2. The polarizer 1 constituted in such a way has wavelength selectivity as an interference filter by allowing selective transmission of only the light having the wavelength

expressed by  $2nd=m\lambda$ , where (m) is an integer and (n) is the refractive index of the double refractive layer, with respect to the incident light in a vertical direction on account of the interference effect generated by the thickness (d) of the layer 5. Said polarizer permits also the transmission of the light having a uniform polarization plane and the light having a prescribed wavelength according to the polarization plane of the incident light.

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